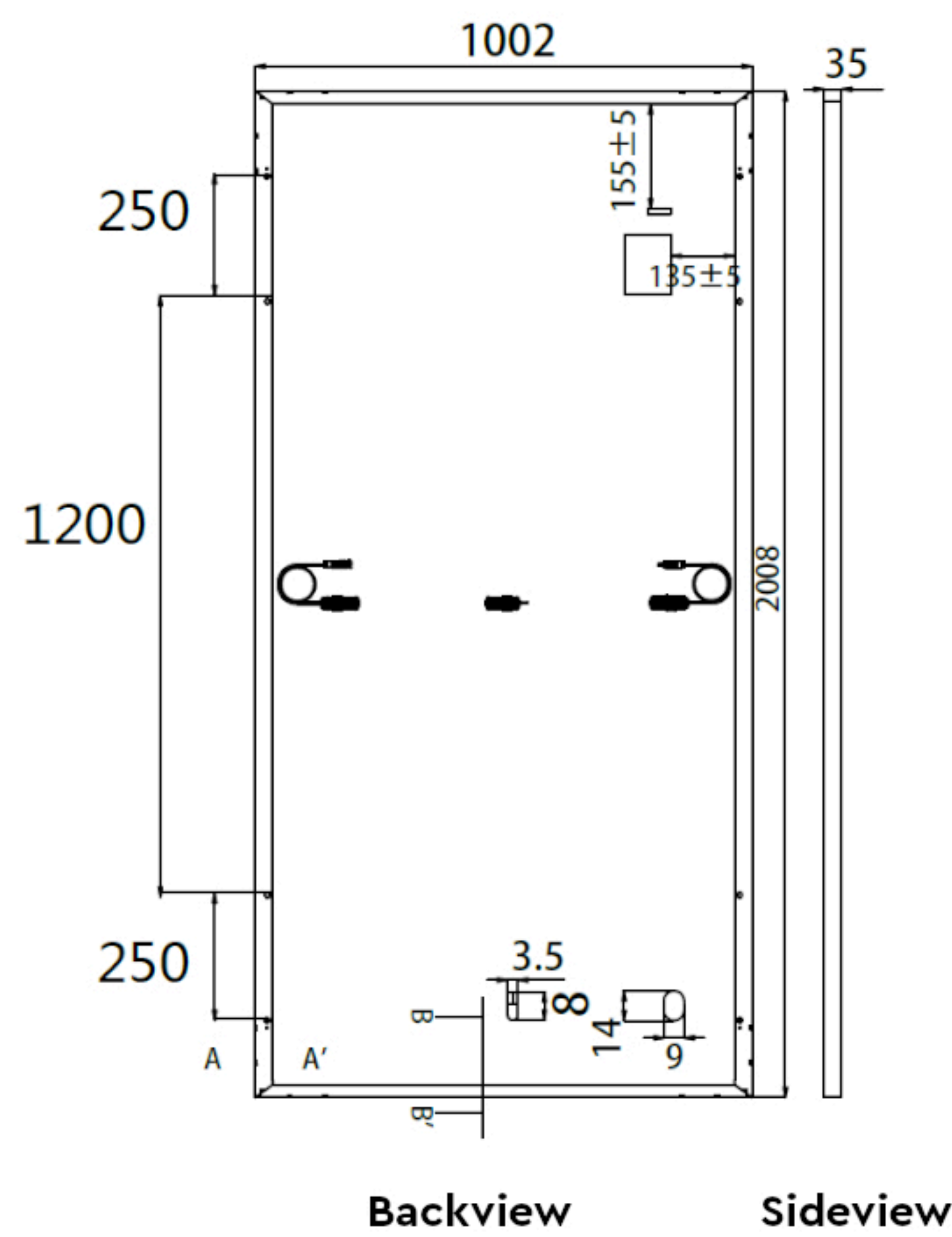


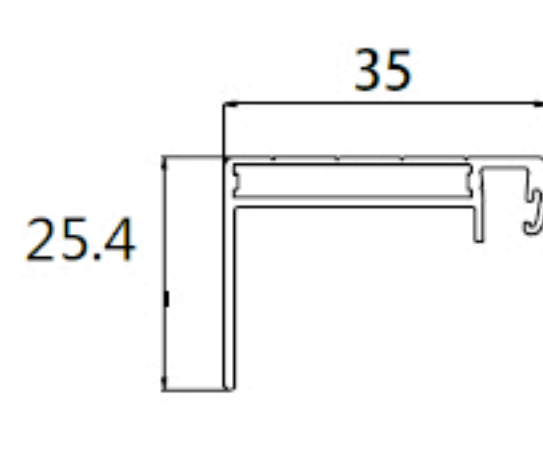
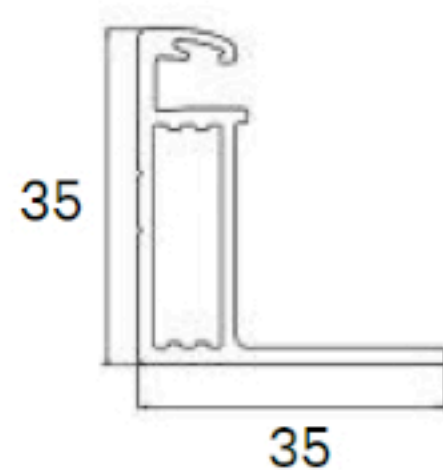


Backview

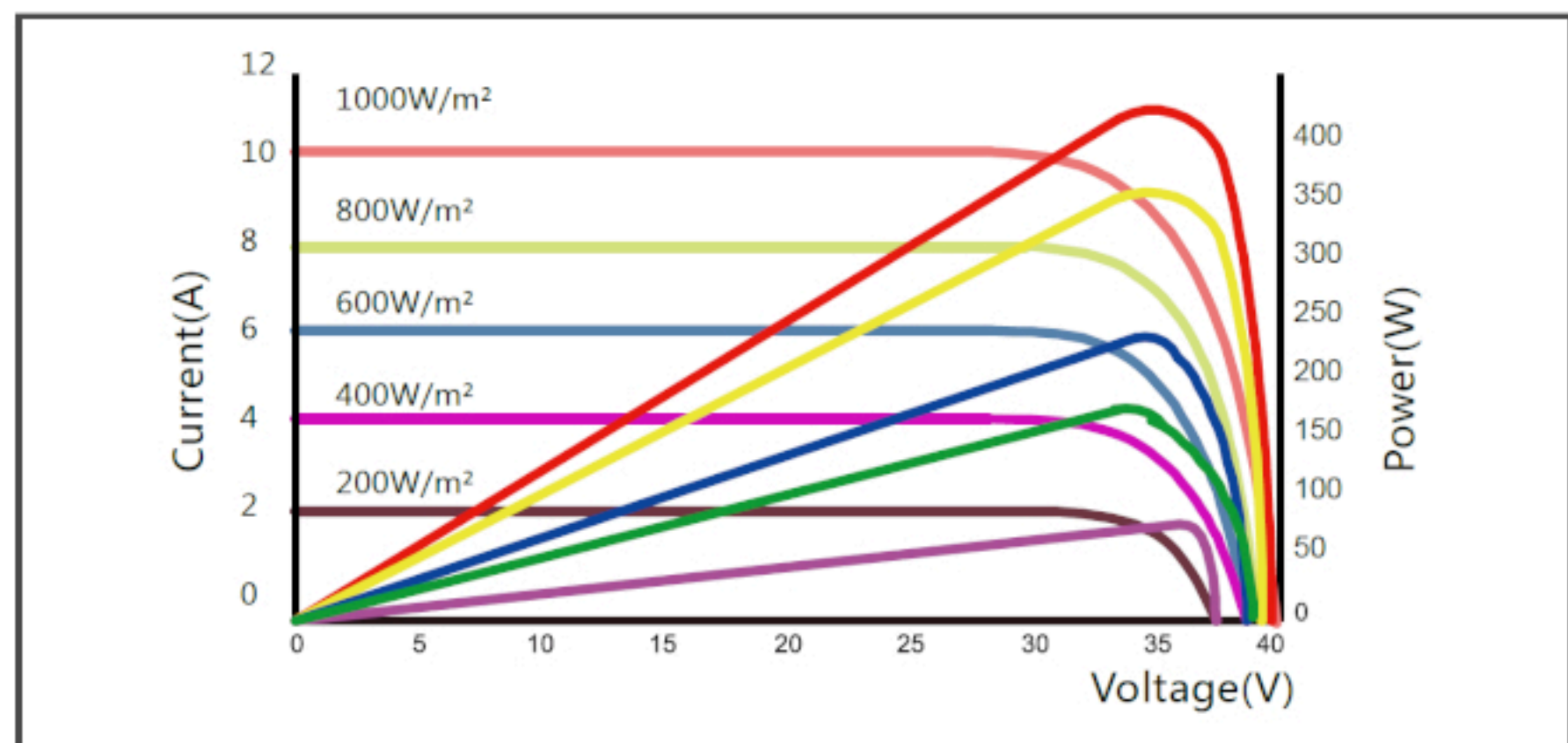
Sideview

Frame Cross Section A-A

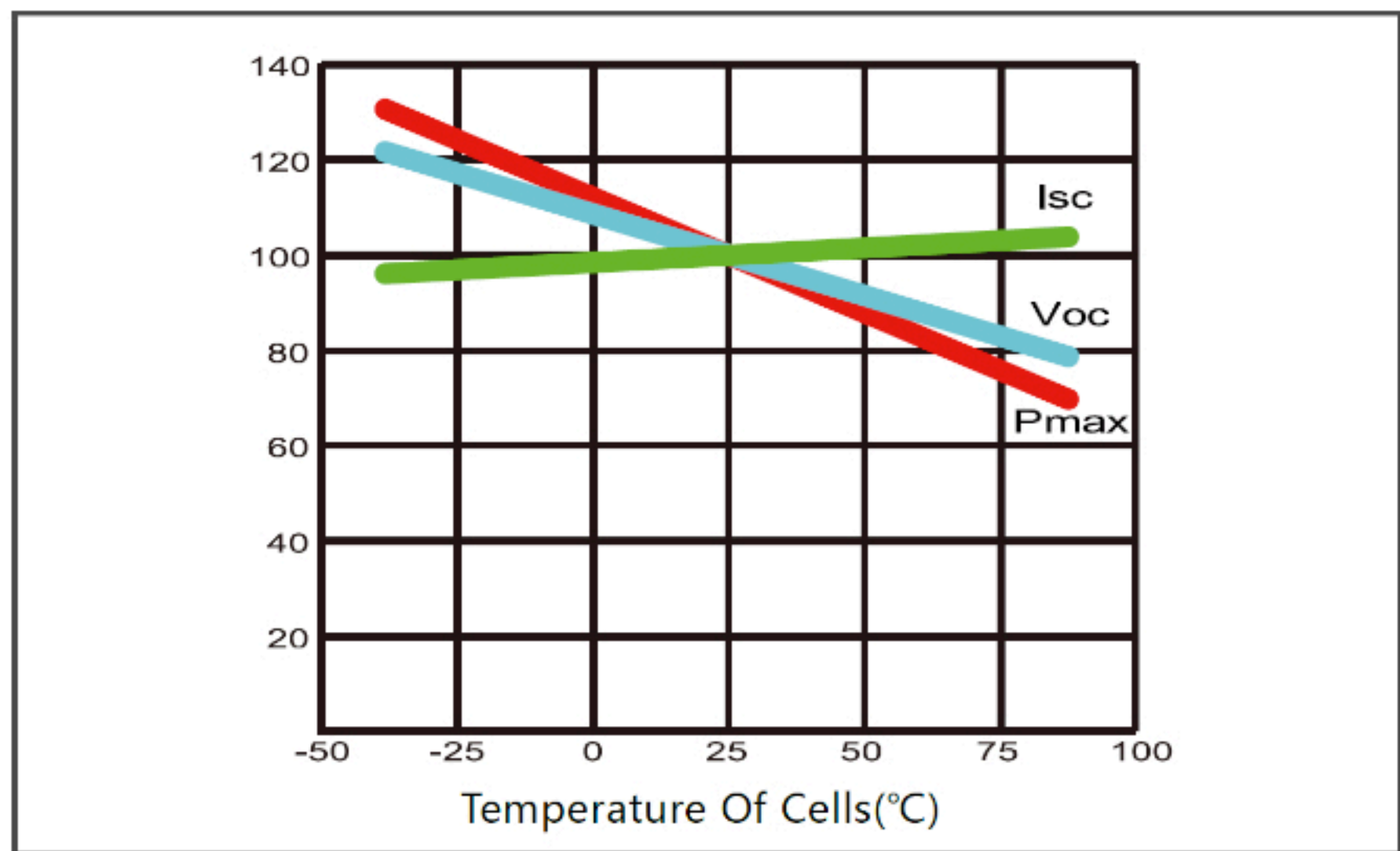
Frame Cross Section B-B



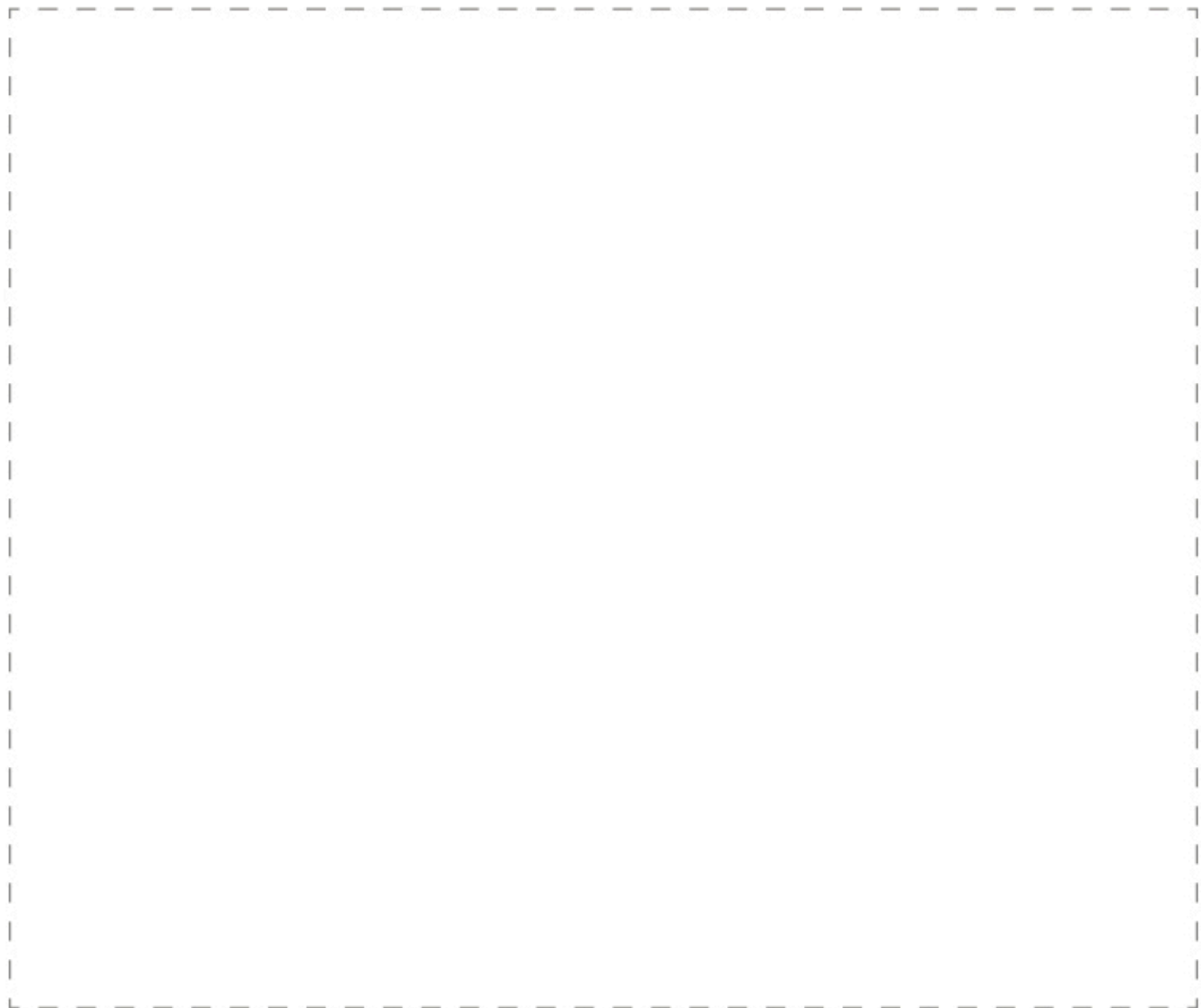
I-V characteristics at different irradiances



I-V characteristics at different temperature



Partner information



ELECTRICAL PARAMETERS AT STC

Power	410W	415W	420W	425W	430W	435W	440W
Open Circuit Voltage	50.00V	50.20V	50.40V	49.00V	49.20V	49.40V	49.60V
Short Circuit Current	10.25A	10.29A	10.33A	11.11A	11.19A	11.26A	11.33A
Maximum Power Voltage	42.60V	42.90V	43.20V	40.40V	40.60V	40.80V	41.00V
Maximum Power Current	9.63A	9.67A	9.72A	10.52A	10.60A	10.67A	10.74A
Module Efficiency	20.4%	20.6%	20.9%	21.1%	21.4%	21.6%	21.9%

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL PARAMETERS AT NMOT

Power	309W	312W	316W	318W	322W	326W	330W
Open Circuit Voltage	47.70V	47.90V	48.10V	45.90V	46.10V	46.30V	46.50V
Short Circuit Current	8.27A	8.31A	8.35A	9.02A	9.08A	9.13A	9.19A
Maximum Power Voltage	40.20V	40.50V	40.80V	37.50V	37.70V	37.90V	38.10V
Maximum Power Current	7.69A	7.73A	7.77A	8.50A	8.56A	8.61A	8.66A
Module Efficiency	15.4%	15.5%	15.7%	15.8%	16.0%	16.2%	16.4%

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

TEMPERATURE CHARACTERISTICS

NMOT	41±3°C	Temp Coefficient of ISC	+0.05%/°C
Temp Coefficient of VOC	-0.28%/°C	Temp Coefficient of Pmax	-0.36%/°C

PACKING CONFIGURATION

Modules/Pallet	31 pieces	Modules/40' container	759 pieces
Packing Description	22 Pallets, Total=(31+31+7)x11=759 Pieces		

SPECIFICATIONS

Weight	22.5kg
Dimensions	2008mm*1002mm*35mm
Cell Amount	72*2 pcs
Maximum System Voltage	1000/1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm ² , Landscape: N 1300mm/P 1300mm Portrait: N 150mm/P 300mm
Connection	MC4 compatible
Application Level	Class A

MAXIMUM RATING

Output Tolerance	0~+5W
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400pa/5400pa
Fuse Current	15A

Full range of products and certification systems

ISO 9001 TUV PID-FREE CE IEC61215/61730/61701/62716





GLOBAL PROFESSIONAL PV PRODUCTS
INTERGRATED SOLUTIONS SUPPLIER

IE158x158/M/72/H/MH

72 Cells
Monocrystalline half-cell

410-440W
Power output

21.9%
The Highest Efficiency

0~+5W
Tolerance



IE158x158/M/72/H/MH is a robust solar module with 72 solar cells. These modules can be used for on-grid solar applications. Our meticulous design and production techniques ensure a high-yield, long-term performance for every module produced. Our rigorous quality control and in-house testing facilities guarantee Inter energy modules meet the highest quality standards possible.



High module conversion efficiency (up to 21.9%),
through superior manufacturing technology



5BB/9BB Cell
More uniform current collection capability,
reducing the current heat loss of the internal cells.



Higher Output Power
The output power of 144 half-cells
Monocrystalline modules is up to 440W.

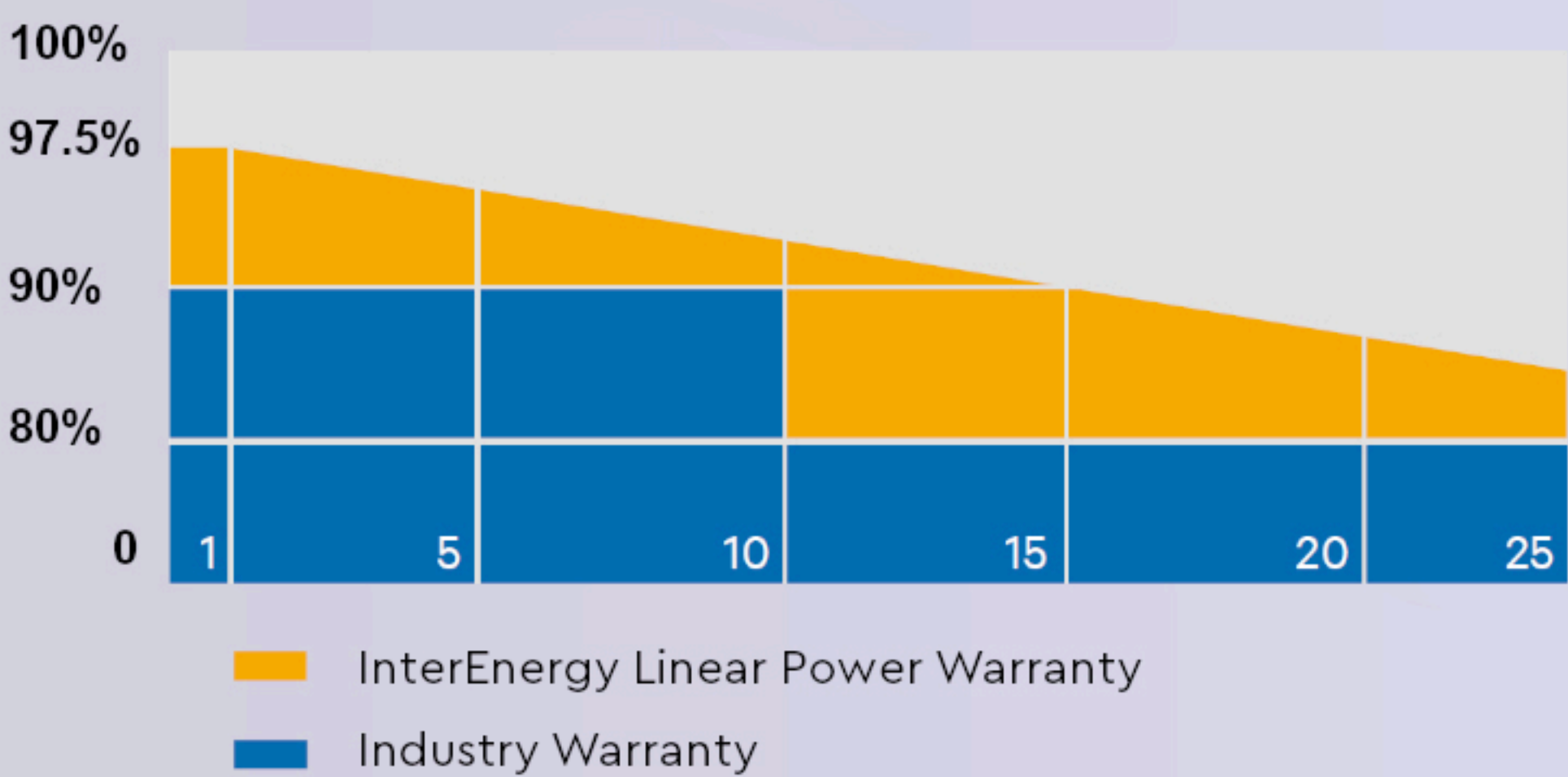


Excellent performance under low light environments
(mornings, evenings and cloudy days)



Suitable for harsh environments, such as coasts, deserts and
lakes Withstand high level of wind loads(2400pa) and snow
loads(5400pa)

0.5% Annual Degradation
over 30 years



LINEAR PERFORMANCE WARRANTY
12 year Product Warranty / 30 year Linear Power Warranty

Full range of products and certification systems

ISO 9001 TUV PID-FREE CE IEC61215/61730/61701/62716

